

THE NORTH AMERICAN LAKE MANAGEMENT SOCIETY

Presents

13th Annual Southeastern Lake Management Conference
“Working Together – Sharing Resources”

March 7-9, 2004
Wild Dunes Resort
Isle of Palms, SC

AGENDA

- 8-4pm **Registration**
 Exhibits Open – *Grand Salon*
- 8-9 am **Continental Breakfast – *Salon Deck***
- 9-10:30am **Plenary Session - *Grand Salon***
 Working Together – Sharing Resources
 Welcome
 Suzanne Thomas-Cole, Executive Director, Lake & Watershed Association
 of South Carolina
 Hon. F. Michael Sottile, Mayor, City of Isle of Palms
 Opening Remarks
 Hon. Joseph P. Riley, Mayor, City of Charleston
 Elizabeth M. Hagood, Chair, Board of Health and Environmental Control
 Gene Medley, NALMS President-Elect
- 10:30-11am **Break – *Salon Deck/Grand Salon***
- 11am-12pm **Plenary Session – *Grand Salon***
 What’s Unique About the Southeastern Environment?
 Rudy Mancke, USC School of the Environment
- 12-1:30pm **Luncheon – *Grand Salon***
- 1:30-3pm **Concurrent Sessions**
 Session 1: Stream Restoration Workshop – Charleston Room
 Introduction to Stream Restoration Using Natural Channel Design Techniques
 Greg Jennings, Ph. D., Water Resources Research Institute, NC State University
 Rockie English, Ph.D., Clemson University
 This workshop will introduce principles of fluvial geomorphology for application in
 assessing and restoring impaired stream channels. Participants will learn about
 stream processes related to channel formation, field assessment techniques, the
 Rosgen classification system for natural streams, channel evolution, and restoration
 options for degraded streams. Case studies of recently completed stream restoration
 projects in the Southeastern USA will be presented to demonstrate effective natural
 stream techniques.

(continued in Session 5)

**Workshop will require pre-registration and will have an extra \$30 charge.*

Session 2: Water Quantity Issues I – Club Room, Boardwalk Inn

Moderator: Hope Mizzell, SC State Climate Office

South Carolina Water Plan

Bud Badr, Ph.D., SC Department of Natural Resources

Strategies for Mitigating Drought: South Carolina's Integrated Planning Approach

Hope Mizzell, SC State Climate Office

Opposing the Sale of Water Rights in Georgia; A Grass Roots Effort

Pat Goran, Lake Hartwell Association, Inc.

Session 3: Local Planning – Gallery I

Moderator: Rusty Rozzelle, Mecklenburg County, NC Department of Environmental Protection

Low Impact Development Ordinance Adopted by the Town of Huntersville in Mecklenburg County, North Carolina

Rusty Rozzelle, Mecklenburg County, NC Department of Environmental Protection

Stormwater Program Funding-Small Municipalities/Large Successes

Doug Jewell, PE, JEWELL Engineering Consultants, PC

Watershed Planning and Implementation: Lake Hollingsworth - A Case Study

Gene Medley, Manager of Lakes & Stormwater, City of Lakeland, FL

Session 4: Influence of Water Quality on Copper Toxicity– Gallery II

Moderator: Stephen J. Klaine, Ph.D, Clemson University

Copper Toxicity to Fishes: Mechanisms of Toxicity and the Concept of Bioavailability

Joe Tomasso, Clemson University

Influence of Multiple Water Chemistry Parameters on Copper Toxicity to Pimephales promelas and Daphnia magna

A.C. Ryan, Clemson University

Development and Validation of Empirical Spatial Models for Predicting Acute Copper Toxicity to Fathead Minnow

Stephen J. Klaine, Ph. D, Clemson University

3-3:30pm **Break – Salon Deck/Grand Salon**

3:30-5pm **Concurrent Sessions**

Session 5: Stream Restoration Workshop, continued from Session 1 – Charleston Room

Introduction to Stream Restoration Using Natural Channel Design Techniques

Greg Jennings, Ph.D., Water Resources Research Institute, NC State University

Rockie English, Ph.D., Clemson University

Session 6: Water Quantity Issues II – Club Room, Boardwalk Inn

Moderator: Peter Phillips, Ph.D., Winthrop University

Mid-Catawba River Basin Water Quality Comparison Between a Drought Year (2002) and a Rainy Year (2003)

Peter Phillips, Ph.D., Winthrop University

Assessing the Impact of Low Water Levels on the Area Economy: A Lake Hartwell Association Survey

Mike Massey, Lake Hartwell Association, Inc.

Use of Water Quality Monitoring in the Falls Lake Reservoir to Detect Impacts of the Drought of 2002

Linda C. Erlich, Ph.D., Spirogyra Diversified Environmental Services

Session 7: Lake Association Water Quality Activities – Gallery I

Moderator: Gene Medley, Lakeland, FL, NALMS President-Elect

Wateree Home Owners Association Activities

Gary Faulkenberry, Wateree Home Owners Association (WHOA)

Friends of Lake Keowee Society Initiatives 2002-03

Walker Miller, Friends of Lake Keowee Society (FOLKS)

Restoration of Eastwood Lake, Chapel Hill, North Carolina

Doug Jewell, PE, JEWELL Engineering Consultants, PC

Session 8: Conflict Management Workshop – Gallery II

Understanding and Dealing with Discord in Everyday Life, with Emphasis on Environmental Conflict

Kathy Stecker, SC Department of Health and Environmental Control

5:30-7:30pm **Networking Reception – Grand Salon**

8pm – 12am **Hospitality Suite Open**

Tuesday, March 9, 2004

7:30 am-12pm **Registration – Salon Foyer**
Exhibits Open – Grand Salon

7:30-8:30am **Continental Breakfast – Salon Deck**

8:30-10am **Concurrent Sessions**

Session 9: Stream Benthos Monitoring – Charleston Room

Moderator: Dave Penrose, NC Division of Water Quality

Aquatic Insects: An Overview of Their Pollution Ecology

Dave Penrose, NC Division of Water Quality

Overview of the SCDHEC Macroinvertebrate Biological Monitoring Program

James B. Glover, Ph.D., SC Department of Health and Environmental Control

Benthic Macroinvertebrate Monitoring of Restored Streams

Kirsten Young, Clemson University

Session 10: Water Quality in the Catawba River Basin – Club Room, Boardwalk Inn

Moderator: Bill Foris, Duke Energy

Modeling Phosphorus Loading and Lake Responses in the Lower Catawba River Watershed

Hank McKellar, Ph.D., SC Department of Natural Resources

Comparison of Various Methods to Estimate Solids in Water Samples

William J. Foris, Duke Energy

A Comprehensive-Based Modeling Approach for Predicting Sediment and Nutrient Loads to a North Carolina Piedmont Reservoir

Mike Struve, Western Piedmont Council of Governments

Session 11: Lake Management Issues for Lake Advocate Associations: A Panel Discussion – Gallery I

Moderator: Carol Adams, Friends of Lake Glenville

Panelists: Gary Faulkenberry, Wateree Homeowners Association; Rich Kidder, Lake Murray Association; Doug Odell, Friends of Lake Glenville

Session 12: TMDL Development – Gallery II

Moderator: Craig Hesterlee, US EPA Region IV

The Thompson Creek Watershed Project: A Community Based Approach to TMDL Development

Mike D'Annucci, MSD Associates

Total Maximum Daily Loads (TMDL) for PCBs: Case Study of the Delaware River Estuary

Victor J. Bierman, Jr., Ph.D., Limno-Tech, Inc.

Lake and Reservoir TMDL Development: Emerging Issues and the EPA Region 4 Perspective

Craig Hesterlee, US EPA Region IV

10-10:30am **Break – Grand Salon**
Satellite Hotel Check-Out – Salon Foyer

10:30am-12pm **Concurrent Sessions**

Session 13: Improving Fish Habitat in Impoundments – Charleston Room

Moderator: C. Wade Bales, SC Department of Natural Resources

Late Summer Habitat Enhancement in the Hartwell Dam (GA/SC) Tailrace

William E. Jabour, US Army Corps of Engineers, Environmental Research and Development Center, Trotters Shoals Limnological Research Facility

Richard B. Russell and J. Strom Thurmond Hydro Release Dissolved Oxygen Improvements

James A. Sykes, US Army Corps of Engineers, Richard B. Russell Lake

Establishment of Native-Submersed Aquatic Vegetation on Richard B. Russell Lake, South Carolina

C. Wade Bales, SC Department of Natural Resources

Session 14: Hydropower I – Club Room, Boardwalk Inn

Moderator: Bradley R. Shultz, Kleinschmidt Associates

Assessing the Treatability of Hydrogen Sulfide from a Stratified Reservoir

Bradley R. Shultz, Kleinschmidt Associates

Instream Flows in the Context of Riverine Ecology

Ronald C. Ahle, SC Department of Natural Resources

Lake Seminole Hydrilla Action Plan: Development and Implementation

Michael J. Eubanks, US Army Corps of Engineers, Mobile District

Session 15: Implementing a Volunteer Monitoring Program in a Rural Setting – Gallery I

What the Heron Sees – How to design and implement a Volunteer Water Watch program in a rural setting engaging available community partners

Jean-Ann Moon, Retired and Senior Volunteer Program, Marshall County, AL

Session 16: Innovative Funding Ideas for TMDL Implementation – Gallery II

Moderator: Mark Giffin, SC Department of Health and Environmental Control

South Carolina's Approach to Implementing TMDLs

Mark Giffin, SC Department of Health and Environmental Control
Innovative Funding for TMDL Implementation
Chris Costner, City of Rock Hill, SC
Coneross Creek and Beaverdam Creek TMDL Implementation Project
Morris Warner, Clemson Extension Service

12-1pm **Boxed Lunch – Grand Salon**

1-2:30pm **Concurrent Sessions**

Session 17: Interstate Waters: Riverkeepers' Perspectives – Charleston Room

Moderator: Hamp Shuping, Waccamaw Riverkeeper

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Frank Carl, Savannah Riverkeeper

Donna Lisenby, Catawba Riverkeeper

Session 18: Hydropower II: Modeling for Decisions on Lake Murray and Saluda

Tailwater – Club Room, Boardwalk Inn

Moderator: Alan Stuart, Kleinschmidt Associates

Prediction of Dissolved Oxygen Conditions in Saluda Discharges

Jim Ruane, Reservoir Environmental Management., Inc.

Prediction of Fish Growth Using a Bioenergetic Model

Gary Hauser, Loginetics, Inc.

Prediction of the Effects of Upstream Nutrient Loads on Water Quality in Lake Murray and Saluda Discharges

Andy Sawyer, Reservoir Environmental Management., Inc.

Session 19: Shoreline Restoration – Gallery I

Eco-Friendly Shoreline Restoration: The Piedmont Reservoir Experience

Larry Dyck, Clemson University

Session 20: Effectiveness and Accountability in Education Programs – Gallery II

Moderator: Mark Nuhfer, US EPA Region IV

Video Stresses Importance of TMDLs on Water Quality

Patricia Hurley, AL Department of Environmental Management

"Survey Says..." Evaluating South Carolina's Citizen NPS Awareness

Anne Marie Johnson, SC Department of Health and Environmental Control

Effective Watershed Outreach and Education

Mark Nuhfer, US EPA Region IV

2:30-3pm **Break – Grand Salon**

3-4:30pm **Concurrent Sessions**

Session 21: Savannah River Basin: An Interstate Case Study – Charleston Room

Moderator: Mike Massey, Lake Hartwell Association, Inc.

The Establishment of the Savannah River Basin Alliance: Coordinating the Efforts of Existing Water Related Organizations Along the Savannah River Basin

Mike E. Massey, Lake Hartwell Association, Inc.

Savannah River Basin Comprehensive Water Resources Management Study

Leroy G. Crosby, US Army Corps of Engineers, Savannah District

Comparison of the Three Corps of Engineers, Savannah District Multi-Purpose Projects

Melissa Wolf, US Army Corps of Engineers, Savannah District

Session 22: Hydropower Relicensing: Resetting Priorities for Public Waters –
Club Room, Boardwalk Inn

Moderator: Gerrit Jobsis, South Carolina Coastal Conservation League

Hydropower Relicensing: Resetting Priorities for Public Waters

Gerrit Jobsis, South Carolina Coastal Conservation League

Strategic Citizen Participation in Hydropower Relicensing

Andrew Fahlund, American Rivers

A State Agency Perspective on Setting Priorities for Public Waters

Chris Goudreau, North Carolina Wildlife Resources Commission

Opportunities to Enhance Diadromous Fishes Through FERC Relicensing

Doug Cooke, South Carolina Department of Natural Resources

Session 23: Forest Management and Water Quality – Gallery I

Moderator: Darryl Jones, South Carolina Forestry Commission

South Carolina's Forestry BMP Compliance Program

Darryl Jones, South Carolina Forestry Commission

Forest Management for Lake Murray

Scott Collins, SCANA Forestry Operations

*Investigating Avian Vacuolar Myelinopathy (AVM): Linking eagle deaths, waterfowl,
invasive aquatics, and cyanobacteria*

Susan B. Wilde, Baruch Institute, University of South Carolina and South Carolina
Department of Natural Resources, Marine Resources Division

Session 24: Nonpoint Source Bacteria Monitoring – Gallery II

Moderator: Susan Libes, Ph.D., Coastal Carolina University

Bacterial Contaminations in the Kingston Lake Subwatershed, Horry County, SC

Susan Libes, Ph.D., Coastal Carolina University

Antibiotic Resistance of Escherichia coli in a South Carolina Creek

David Graves, SC Department of Health and Environmental Control

Nonpoint Source Pollution Assessment Project for Waters Around Isle of Palms, SC

Linda Tucker, Isle of Palms, SC

<i>Final Edition Updated 3/1/04</i>
